

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

O I P E
J.C. Applicants
MAR 19 2002
PATENT & TRADEMARK OFFICE
Serial No.
Docket No. : 5634.0186
Filed : June 7, 1995
For : SIGNAL PROCESSING APPARATUS AND METHODS
Group Art Unit : 2699
Examiner : FAILE, A.

Box: FEE-AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

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Technology Center 2600

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, Applicants respectfully request consideration of the references listed on the attached Form PTO-1449.

Applicants respectfully request that the Examiner consider the references cited on the PTO-1449 and that the Examiner indicate that the references have been considered in this application by returning a copy of the Form PTO-1449 with the Examiner's initials in the left column per M.P.E.P. § 609.

I. Description of the References

The references identified in this Supplemental Information Disclosure Statement ("Supplemental IDS") can be grouped into three categories. *First*, there are references identified in this Supplemental IDS that were cited to the PTO in connection with related applications, but were not cited in the instant application due to applicants' asserted

priority date of November 3, 1981. Applicants are now citing these references because the Examiner has challenged applicants' November 3, 1981 priority date. Applicants maintain, however, that this application is entitled to the benefit of the challenged November 3, 1981 filing date.

Second, applicants have identified in this Supplemental IDS references made of record in applicants' related applications that have not previously been made of record in the instant case.

Third, this Supplemental IDS identifies two new references that have not previously been identified in this application or any other related applications to date. These two new references are Japanese references that came to applicants' attention during the prosecution of applicants' applications pending in Japan. These new references are: JP 59-224988 and JP 61-174889.

II. Description of Corrections

In the course of preparing this Supplemental IDS applicants identified a number of miscellaneous inadvertent clerical errors contained in previously filed information disclosure statements. Applicants have corrected any such inadvertent errors with respect to references that are identified in this Supplemental IDS. With respect to inadvertent errors that occurred in information disclosure statements previously filed in this application applicants' identify and correct such inadvertent errors as follows:

- In the May 11, 2001 Information Disclosure Statement, the foreign patent reference previously identified as JP 59-50134 is correctly identified as JP 59-501340. Also in the May 11, 2001 Information Disclosure Statement, the foreign patent reference FR 79-03351 identifies the French application

number. The correct identification of this reference is publication number FR 2,417,226.

- With respect to foreign patent references in various information disclosure statements, information regarding the publication dates of these references may not have been supplied or may have been incorrectly identified. Additionally, applicants made inadvertent errors with respect to the provision of translations for certain foreign language references. A corrected complete list of all foreign references made of record in applicants' related pending applications is identified in Appendix A.
- In the concise explanation previously provided for foreign reference DE 2,338,330, this reference was misidentified. The correct patent number for this German reference is DE 2,338,380.
- Applicants discovered that they inadvertently filed an Information Disclosure Statement filed on April 5, 1996 in this application that was missing certain pages. The references on those missing pages that should have been filed on April 5, 1996 are included on this Supplemental IDS.

III. Concise Explanations of Foreign Language References

Applicants unintentionally may not have provided concise explanations for certain previously identified foreign language references. Concise explanations for these references are provided in Appendix B. Additionally, in Appendix B applicants provide concise explanations for the two new Japanese references cited for the first time in this Supplemental IDS. Applicants' submission of Appendix B meets the requirements regarding a concise explanation of foreign references as set forth in 37 CFR 1.98 and M.P.E.P. § 609.

IV. Conclusion

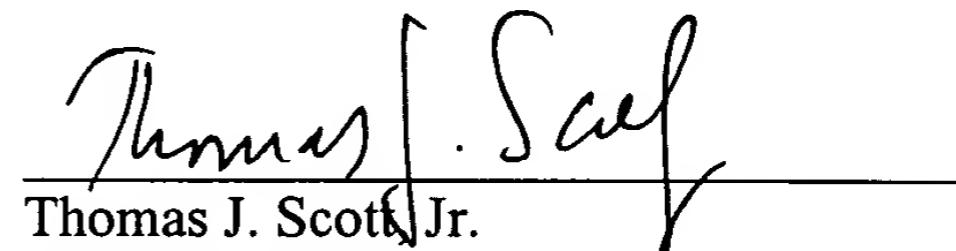
Pursuant to an agreement reached between the Examiner and applicants (see first Office Action issued in this application), applicants are not submitting copies of the references cited in this Supplemental IDS where applicants have previously provided copies of all of the references cited herein in related applications. Applicants are presently providing newly acquired translations of three Japanese patent applications, 58-99817, 56-84340 and 58-29020 in applicants' application number 08/113,329, pursuant to the same agreement mentioned above.

This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance. 37 C.F.R. § 1.97(c).

Submitted herewith is a check in the amount of \$180.00 to cover the fee for filing this Supplemental Information Disclosure Statement under 37 C.F.R. § 1.17(p). Any deficiency in or overpayment of this fee should be charged or credited to Deposit Account No. 50-0206.

Date: March 19, 2002
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Respectfully submitted,



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APPENDIX A

FOREIGN PATENT DOCUMENTS

| DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY | CLASS/ SUBCLASS | TRANSLATION NO | YES |
|-----------------|------------------|---------------|-----------------|------------------------|-----|
| 20,242 | 12/10/80 | EPO | G09G 1/16 | X | |
| 46,108 | 02/17/82 | EPO | H04N 5/76 | X | |
| 49,184 | 04/07/82 | EPO | G09B 7/08 | X | |
| 53,984** | | Japan | | X | |
| 55,167 | 06/30/82 | EPO | G09G 1/16 | X | |
| 55,674 | 07/07/82 | EPO | 07/07/82 | | |
| 56,649 | 07/28/82 | EPO | H04N 5/44 | | |
| 481,565 | 04/29/76 | Australia | | | |
| 77,712 | 04/27/83 | EPO | H04N 7/00 | X | |
| 78,185 | 05/04/83 | EPO | H04N 7/00 | X | |
| 103,438 | 03/21/84 | EPO | H04N 7/10 | | |
| 128,481 | 12/19/84 | EPO | H04N 7/00 | | |
| 132,007 | 01/23/85 | EPO | H04N 7/16 | | |
| 133,985 | 03/13/85 | EPO | H 04 N 7/087 | | |
| 152,251 | 08/21/85 | EPO | H04H ½ | | |
| 187,417 | 07/16/86 | EPO | H04 N 7/087 | | |
| 206,821 | 12/30/86 | EPO | H04N 7/00 | | |
| 217,308 | 04/08/87 | EPO | H04M 11/00 | | |
| 857,862 | 1/4/61 | Great Britain | 40 (1) | RECEIVED | |
| 959,274 | 05/27/64 | Great Britain | | | |
| 1,066,931 | 04/26/67 | Great Britain | G 07c | MAR 26 2002 | |
| 1,189,612 | 06/25/85 | Canada | Ho4n 7/08 | Technology Center 2600 | |
| 1,204,190 | 09/03/70 | Great Britain | | | |
| 1,213,357 | 11/25/70 | Great Britain | | | |
| 1,216,977 | 01/20/87 | Canada | HO4M 11/00 | | |
| 1,370,535 | 10/16/74 | Great Britain | GO9G1/16 | | |
| 1,396,981 | 06/11/75 | Great Britain | H04H 1/00 | | |
| 1,515,309 | 06/21/78 | Great Britain | G06 K 15/20 | | |
| 1,523,307 | 08/31/78 | Great Britain | H03K 5/08 | | |
| 1,543,502 | 04/04/79 | Great Britain | G08B9/00 | | |
| 1,554,411 | 10/17/79 | Great Britain | H04b 3/54 | | |
| 1,556,366 | 11/21/79 | Great Britain | | | |
| 1,582,563 | 01/14/81 | Great Britain | G08B9/00 | | |
| 1,584,111 | 02/04/81 | Great Britain | G08B9/00 | | |
| 2,016,874 | 02/01/79 | Great Britain | | | |
| 2,033,699 | 05/21/80 | Great Britain | H04L 1/10, 1/40 | | |
| 2,034,995 | 06/11/80 | Great Britain | H03J 7/18, 5/00 | | |

| DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY | CLASS/ SUBCLASS | TRANSLATION NO YES |
|-----------------|------------------|---------------|-----------------|--------------------|
| 2,051,527 | 01/14/81 | Great Britain | G06F 3/153 | |
| 2,058,681 | 06/15/72 | Germany | H04N 7/08 | X |
| 2,067,379 | 07/22/81 | Great Britain | H04L 1/24 | |
| 2,081,948 | 02/24/82 | Great Britain | H04Q 9/00 | |
| 2,090,504 | 07/07/82 | Great Britain | H04N 3/16 | |
| 2,103,455 | 02/16/83 | Great Britain | H04N 1/00 7/12 | |
| 2,126,002 | 03/14/84 | Great Britain | G11B 15/02 | |
| 2,140,963 | 12/05/84 | Great Britain | | |
| 2,141,897 | 01/03/85 | Great Britain | H04N 7/16 | |
| 2,164,229 | 03/12/86 | Great Britain | | |
| 2,167,917 | 06/04/86 | Great Britain | | |
| 2,185,670 | 07/22/87 | Great Britain | H04N 7/087 | |
| 2,338,380 | 02/13/75 | Germany | | X |
| 2,356,969 | 05/22/75 | Germany | | X |
| 2,417,226 | 02/01/79 | France | | X |
| 2,453,441 | 05/13/76 | Germany | H04L 9/00 | X |
| 2,496,376 | 06/18/82 | France | H04N 7/00 | X |
| 2,516,733 | 05/05/83 | France | H04N 7/00 | X |
| 2,550,624 | 05/26/77 | Germany | | X |
| 2,823,175 | 11/29/79 | Germany | G06F 3/12 | X |
| 2,831,014 | 04/03/80 | Germany | | X |
| 2,853,764 | 01/29/81 | Germany | | X |
| 2,904,891 | 08/16/79 | Germany | | X |
| 2,918,846 | 11/13/80 | Germany | F26B 12/02 | X |
| 3,020,787 | 12/17/81 | Germany | H04N 7/08 | X |
| 3,039,949 | 05/06/82 | Germany | H04M 3/42 | X |
| 3,112,249 | 10/07/82 | Germany | G09G 1/28 | X |
| 3,143,627 | 05/11/83 | Germany | | X |
| 3,337,204 | 04/25/85 | Germany | H04N 5/44 | X |
| 53-068124 | 06/17/78 | Japan | | X |
| 53-11515 | 02/02/78 | Japan | | X |
| 53-121420 | 10/23/78 | Japan | | X |
| 55-028691 | 02/29/80 | Japan | | X |
| 55-26792 | 02/26/80 | Japan | | X |
| 55-49084 | 04/08/80 | Japan | | X |
| 55-500886 | 10/30/80 | Japan | | X |
| 55-79585 | 06/16/80 | Japan | | X |
| 56-47179 | 04/28/81 | Japan | | X |
| 56-51161 | 05/08/81 | Japan | | X |
| 57-199377 | 12/07/82 | Japan | | X |
| 58-156279 | 09/17/83 | Japan | | X |

| DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY | CLASS/ SUBCLASS | TRANSLATION NO | YES |
|-----------------|------------------|-----------|-----------------|----------------|-----|
| 58-209276 | 12/06/83 | Japan | | | X |
| 59-154886 | 09/03/84 | Japan | | | X |
| 59-160387 | 09/11/84 | Japan | H04N 7/10 | | X |
| 59-224988 | 12/17/84 | Japan | | | X |
| 59-501340 | 03/23/84 | Japan | | X | |
| 60-123182 | 07/01/85 | Japan | | | X |
| 60-146587 | 08/02/85 | Japan | | X | |
| 60-149281 | 08/06/85 | Japan | | X | |
| 60-256289 | 12/17/85 | Japan | H04N 7/173 | | X |
| 60-61935 | 04/09/85 | Japan | G11B15/02 | X | |
| 61-148988 | 07/07/86 | Japan | H04N 7/173 | | X |
| 61-174889 | 08/06/86 | Japan | | X | |
| 61-20441 | 01/29/86 | Japan | | X | |
| 61-267474 | 11/27/86 | Japan | | X | |
| 61-50470 | 03/12/86 | Japan | H04N 5/44 | X | |
| PL 204,525 | 02/09/78 | Poland | | X | |
| WO 80/00292 | 02/21/80 | PCT Appl. | H04N9/16 | X | |
| WO 80/02093 | 10/02/80 | PCT Appl. | H04B 1/20 | | |
| WO 80/02901 | 12/24/80 | PCT Appl. | H04N 7/16 | X | |
| WO 81/02961 | 10/15/81 | PCT Appl. | H04N 7/16, 7/04 | | |
| WO 83/00789 | 03/03/83 | PCT Appl. | H04N 7/08 | X | |
| WO 85/03604 | 08/15/85 | PCT Appl. | H03K 3/84 | | |
| WO 85/03830 | 08/29/85 | PCT Appl. | H04N 7/16 | | |
| WO 87/04884 | 08/13/87 | PCT Appl. | H04M 11/08 | | |

** Japanese reference 53,984 to Jinno was cited by the Examiner in Application No. 08/470,447. The Examiner did not supply a publication date and applicants have been unable to determine a publication date for this reference.

APPENDIX B

Concise Explanations for Foreign References

JP 61-174889 August 6, 1986 Japan

Foreign language patent JP 61-174889 came to applicants' attention during the prosecution of applicants' applications pending in Japan.

**FR 2,417,226 February 1, 1979 France
PL 204,525 February 9, 1978 Poland**

The French reference 2,417,226 and Polish reference PL 204,525 are both applications filed by Zaboklicki. The PTO has cited the German application filed by Zaboklicki which claims priority to the Polish Zaboklicki application. Translations of the German Zaboklicki application have been provided to the Examiner.

DE 2,831,014 April 3, 1980 Germany

The German reference DE 2,831,014 was applied by the Examiner in the September 4, 2001 Office Action in Application No. 08/487,526.

JP 55-26792 February 26, 1980 Japan

The Japanese reference JP 55-26792 was applied by the Examiner in the August 27, 2001 Office Action in Application No. 08/470,571.

WO 80/02901 December 24, 1980 France

The WO 80/02901 reference discloses a television system with a double key encryption service for subscription television.

DE 3,337,204 April 3, 1980 Germany

German reference DE 3,337,204 discloses a viewer interactive program schedule.

The following Japanese references were identified on applicants' on May 11, 2001 IDS, but explanations were unintentionally not provided. All of these applications came to applicants' attention during the prosecution of applicants' applications pending in Japan.

| | | |
|---------------------|--------------------------|--------------|
| JP 53-11515 | February 2, 1978 | Japan |
| JP 53-121420 | October 23, 1978 | Japan |
| JP 55-500886 | October 30, 1980 | Japan |
| JP 59-501340 | March 23, 1984 | Japan |
| JP 60-146587 | September 2, 1985 | Japan |
| JP 61-20441 | January 29, 1986 | Japan |
| JP 61-267474 | November 27, 1986 | Japan |

The following references were cited on PTO form 892 by the Examiners in applicants related pending applications.

| | | |
|---------------------|---------------------------|--------------|
| JP 58-156279 | September 17, 1983 | Japan |
| JP 55-79585 | June 16, 1980 | Japan |

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

CITATION FORM

Attorney Docket No.:

Serial No.

05634.0186

08/474,146

Applicant(s)

John C. Harvey and James W. Cuddihy

Filing Date

June 7, 1995

Group Art Unit
2699

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TECHNOLGY
SEARCH
SECTION

UNITED STATES PATENT DOCUMENTS

| PATENT NUMBER | PATENT DATE | NAME | CLASS/ SUBCLASS | FILING DATE* |
|---------------|-------------|---------------------|-----------------|--------------|
| 1,992,271 | 02/26/35 | Williams | | 09/17/31 |
| 2,046,381 | 07/07/36 | Hicks et al. | 12/10/30 | |
| 2,192,217 | 03/05/40 | Bellamy, et al. | 07/15/29 | |
| 2,217,881 | 10/15/40 | Allen | | 02/18/32 |
| 2,236,077 | 03/25/41 | Smith | | 05/29/30 |
| 2,264,563 | 12/02/41 | Bumstead | | 01/02/32 |
| 2,570,209 | 10/09/51 | Cotsworth, III | 05/01/48 | |
| 2,855,993 | 10/14/58 | Rahmel | 358/84 | 03/19/54 |
| 2,995,624 | 08/08/61 | Watters | | 03/11/59 |
| 3,011,153 | 11/28/61 | Haselton et al. | 05/23/56 | |
| 3,029,308 | 04/10/62 | Adler et al. | 09/22/58 | |
| 3,082,402 | 03/19/63 | Scantlin | | 05/10/60 |
| 3,366,731 | 01/30/68 | Wallerstein | 08/11/67 | |
| 3,612,752 | 10/12/71 | Banning, Jr. | 178/5.1 | 06/22/66 |
| 3,764,983 | 10/09/73 | Stok | 340/150 | 05/03/72 |
| 3,778,058 | 12/11/73 | Rausch | 463/3 | 06/17/71 |
| 3,778,721 | 12/11/73 | Moran | 325/396 | 09/08/72 |
| 3,982,064 | 09/21/76 | Barnaby | 348/467 | |
| 4,035,838 | 07/12/77 | Bassani et al. | 358/86 | 03/16/76 |
| 4,057,829 | 11/08/77 | Moorehead | 358/86 | |
| 4,059,729 | 11/22/77 | Eddy et al. | 179/15 BF | 06/09/76 |
| 4,061,879 | 12/06/77 | Wintzer | 179/15 BA | 09/29/75 |
| 4,162,483 | 07/24/79 | Entenman | 340/147 R | 04/01/77 |
| 4,175,267 | 11/20/79 | Tachi | 358/4 | |
| 4,225,918 | 09/30/80 | Beadle et al. | 364/200 | 03/09/77 |
| 4,290,062 | 09/15/81 | Marti, et al. | 340/721 | |
| 4,303,940 | 12/01/81 | Ciciora | 358/142 | |
| 4,303,941 | 12/01/81 | Marti, et al. | 358/147 | |
| 4,319,353 | 03/09/82 | Alvarez, III et al. | 370/104 | 02/29/80 |
| 4,333,109 | 06/01/82 | Ciciora | 358/147 | |
| 4,335,402 | 06/15/82 | Holmes | 358/147 | 11/14/80 |
| 4,338,643 | 07/06/82 | Tadokoro | 360/135 | |
| 4,347,618 | 08/31/82 | Kavouras, et al. | 375/37 | |
| 4,352,011 | 09/28/82 | Guillou | 235/375 | |
| 4,365,249 | 12/21/82 | Tabata | 340/825.3 | 09/29/80 |
| 4,369,333 | 01/18/83 | Gemperle et al. | 178/22.13 | |
| 4,383,273 | 05/10/83 | Lunn | 348/725 | 12/29/80 |
| 4,386,416 | 05/31/83 | Giltner et al. | 364/900 | 06/02/80 |
| 4,393,376 | 07/12/83 | Thomas | 340/717 | |
| 4,405,946 | 09/20/83 | Knight | 358/192.1 | |

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE | NAME | CLASS/ SUBCLASS | FILING DATE* |
|------------------|---------------|-------------|------------------|-----------------|--------------|
| | 4,410,911 | 10/18/83 | Field et al. | 358/121 | |
| | 4,412,244 | 10/25/83 | Shanley, II | 358/22 | |
| | 4,414,516 | 11/08/83 | Howard | 333/21A | |
| | 4,425,664 | 01/10/84 | Sherman et al. | 375/8 | |
| | 4,426,698 | 01/17/84 | Pargee, Jr. | 371/37 | 08/24/81 |
| | 4,429,385 | 01/31/84 | Cichelli et al. | 370/92 | |
| | 4,433,211 | 02/21/84 | McCalmont et al. | 179/1.5 S | |
| | 4,439,785 | 03/27/84 | Leonard | 358/120 | |
| | 4,449,249 | 05/15/84 | Price | 455/45 | |
| | 4,450,442 | 05/22/84 | Tanaka | 340/814 | |
| | 4,451,700 | 05/29/84 | Kempner et al. | 179/2 AS | |
| | 4,454,543 | 06/12/84 | Lund et al. | 358/118 | |
| | 4,454,594 | 06/12/84 | Heffron et al. | 364/900 | |
| | 4,456,925 | 06/26/84 | Skerlos et al. | 358/85 | |
| | 4,458,109 | 07/03/84 | Mueller-Schloer | 178/22.11 | |
| | 4,458,268 | 07/03/84 | Ciciora | 358/120 | |
| | 4,458,315 | 07/03/84 | Uchenick | 364/200 | |
| | 4,460,922 | 07/17/84 | Ensinger et al. | 358/122 | |
| | 4,462,076 | 07/24/84 | Smith, III | 364/200 | |
| | 4,462,078 | 07/24/84 | Ross | 364/300 | |
| | 4,475,153 | 10/02/84 | Kihara et al. | 364/145 | |
| | 4,475,189 | 10/02/84 | Herr et al. | 370/62 | |
| | 4,476,573 | 10/09/84 | Duckeck | 455/45 | |
| | 4,477,830 | 10/16/84 | Lindman et al. | 358/1 | |
| | 4,484,027 | 11/20/84 | Lee et al. | 178/22.13 | |
| | 4,484,217 | 11/20/84 | Block et al. | 358/84 | |
| | 4,486,773 | 12/04/84 | Okubo | 358/84 | |
| | 4,488,289 | 12/11/84 | Turner | 370/60 | |
| | 4,489,220 | 12/18/84 | Oliver | 179/2 AM | |
| | 4,491,945 | 01/01/85 | Turner | 370/60 | |
| | 4,494,142 | 01/15/85 | Mistry | 358/118 | |
| | 4,494,156 | 01/15/85 | Kadison et al. | 360/48 | |
| | 4,494,230 | 01/15/85 | Turner | 370/60 | |
| | 4,495,623 | 01/22/85 | George et al. | 371/38 | 09/02/82 |
| | 4,495,654 | 01/22/85 | Deiss | 455/151 | |
| | 4,496,171 | 01/29/85 | Cherry | 283/61 | |
| | 4,496,975 | 01/29/85 | Noirel | 358/147 | |
| | 4,496,976 | 01/29/85 | Swanson et al. | 358/147 | |
| | 4,498,098 | 02/05/85 | Stell | 358/22 | |
| | 4,503,287 | 03/05/85 | Morris et al. | 178/22.08 | |
| | 4,503,538 | 03/05/85 | Fritz | 371/28 | |
| | 4,507,680 | 03/26/85 | Freeman | 358/86 | |
| | 4,509,073 | 04/02/85 | Baran et al. | 358/86 | |
| | 4,510,623 | 04/09/85 | Bonneau et al. | 455/181 | |
| | 4,512,011 | 04/16/85 | Turner | 370/60 | |
| | 4,513,324 | 04/23/85 | Poetsch et al. | 358/214 | |
| | 4,520,392 | 05/28/85 | Cox et al. | 358/147 | |

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE | NAME | CLASS/ SUBCLASS | FILING DATE* |
|------------------|---------------|-------------|----------------------|-----------------|--------------|
| | 4,520,404 | 05/28/85 | Von Kohorn | 358/335 | |
| | 4,521,806 | 06/04/85 | Abraham | 358/86 | |
| | 4,527,194 | 07/02/85 | Sirazi | 358/86 | |
| | 4,531,020 | 07/23/85 | Wechselberger et al. | 178/22.08 | |
| | 4,532,540 | 07/30/85 | Wine | 358/12 | 03/28/83 |
| | 4,532,547 | 07/30/85 | Bennett | 358/148 | |
| | 4,533,948 | 08/06/85 | McNamara et al. | 358/122 | |
| | 4,533,949 | 08/06/85 | Fujimura et al. | 358/122 | |
| | 4,535,355 | 08/13/85 | Arn et al. | 358/123 | |
| | 4,538,174 | 08/27/85 | Gargini et al. | 358/86 | |
| | 4,539,676 | 09/03/85 | Lucas | 370/60 | |
| | 4,540,849 | 09/10/85 | Oliver | 179/2 AM | |
| | 4,543,616 | 09/24/85 | Brooks | 358/335 | |
| | 4,544,963 | 10/01/85 | Jacoby et al. | 360/40 | |
| | 4,546,382 | 10/08/85 | McKenna et al. | 358/84 | |
| | 4,546,387 | 10/08/85 | Glaab | 358/186 | |
| | 4,550,407 | 10/29/85 | Couasnon et al. | 371/29 | |
| | 4,553,252 | 11/12/85 | Egendorf | 377/15 | |
| | 4,554,418 | 11/19/85 | Toy | 179/2 DP | |
| | 4,554,584 | 11/19/85 | Elam et al. | 358/165 | |
| | 4,558,464 | 12/10/85 | O'Brien, Jr. | 455/4 | |
| | 4,562,306 | 12/31/85 | Chou et al. | 178/22.08 | |
| | 4,562,465 | 12/31/85 | Glaab | 358/120 | |
| | 4,562,495 | 12/31/85 | Bond et al. | 360/78 | |
| | 4,563,702 | 01/07/86 | Heller et al. | 358/119 | |
| | 4,566,034 | 01/21/86 | Harger et al. | 358/194.1 | |
| | 4,567,512 | 01/28/86 | Abraham | 358/86 | |
| | 4,570,930 | 02/18/86 | Matheson | 273/1 E | |
| | 4,573,072 | 02/25/86 | Freeman | 358/86 | |
| | 4,573,151 | 02/25/86 | Jotwani | 370/56 | |
| | 4,574,305 | 03/04/86 | Campbell et al. | 358/86 | |
| | 4,575,750 | 03/11/86 | Callahan | 358/86 | |
| | 4,577,289 | 03/18/86 | Comerford et al. | 364/900 | |
| | 4,578,536 | 03/25/86 | Oliver et al. | 179/2 AM | |
| | 4,578,718 | 03/25/86 | Parker et al. | 360/10.3 | |
| | 4,580,165 | 04/01/86 | Patton et al. | 358/148 | |
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